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1. A method of removing sludge deposits from a stem generator comprising the steps of:

Identifying a location of the sludge deposit;

draining the water level in the steam generator to just above the identified sludge deposit;

allowing the pressure inside the steam generator to increase to a designated level;

venting the steam generator to induce boiling thus creating both thermal and mechanical stress in the sludge deposit; and

draining the boiler to remove the dislodged sludge deposit.

- 2. A method as set forth in claim 1 wherein the step of inducing both thermal and mechanical stress is done without the application of external heat or pressure.
 - 3.A method as set forth in claim 2 wherein the sludge deposit is on a tubesheet of the boiler.
 - 4.A method as set forth in claim 3 wherein the sludge deposit is an excessive deposit known as a collar.
- 5.A method as set forth in claim 4 wherein the draining of the water level is to a level of between 0 and 24 inches above the identified sludge deposit.
 - 6.A method as set forth in claim 5 including the step of identifying the next sludge deposit and draining the water level to the next sludge deposit.

7.A method as set forth in claim 6 including the steps of:

allowing the pressure inside the steam generator to increase to a designated level;

venting the steam generator to induce boiling thus creating both thermal and mechanical stress in the sludge deposit; and

draining the boiler to remove the dislodged sludge deposit.